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(71) Applicant (for all designated States except US): UMI-CORE AG & CO KG [DE/DE]; Rodenbacher Chaussee 4, 63457 Hanau-Wolfgang (DE).

(72) Inventor; and

- (75) Inventor/Applicant (for US only): OSCHMANN, Heiko [DE/DE]; Wilhelm-Leuschner-Strasse 11, 61169 Friedberg (DE).
- (74) Agent: STARZ, Karl, A.; Umicore AG & Co KG, Patente, Postfach 1351, 63403 Hanau-Wolfgang (DE).
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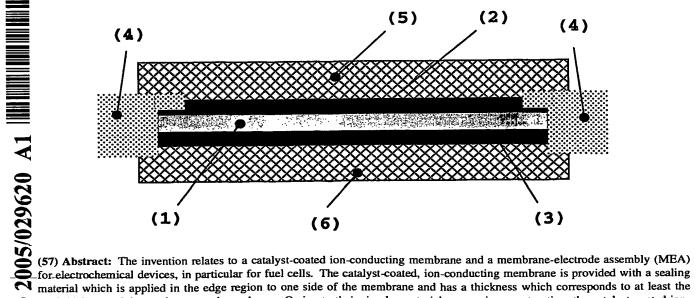
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material which is applied in the edge region to one side of the membrane and has a thickness which corresponds to at least the total thickness of the catalyst-coated membrane. Owing to their simple, material-conserving construction, the catalyst-coated ionconducting membranes and the membrane-electrode assemblies produced therefrom can be manufactured inexpensively. They are used in PEM fuel cells, direct methanol fuel cells (DMFCs), electrolyzers and other electrochemical devices.

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